1st & Final Bill W.O: EE|ELE|RRN|W.O|27|2022-23 Dtd: 20|04|2022

Job:- 016-22-000004.

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

371840

Serial No. .....

Name of work Replacement of damaged UG cable, Panel Board, poles and fittings etc at parks and play grounds comes under Ward No-16,37,38 and 42 of RR Nagar Zone m/s Prashanth Electricals From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1. Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694: confirming to letest amendments 1.5 sqmm.						
	Mtrs →		95	x 10.0	= 950.00		
	2. Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium core single core in open or concealed system of wiring 4 sqmm.						
	Mtrs →		75	x 9.0	= 675.00		

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
3.	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy coos-3 with short circuit breaking capacity of 10 kA and complete wiring as required confirming to IEC 60898. 40 Amps DP..						
		Each → 4				X 1200.0 = 4800.00.	
4.	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board etc.. complete with AC-3 Rating and as per-IS-13947. 60 to 70 Amps-						
		Each → 4				X 3000.0 = 12000.00	

M. A. R. 57 (Rule 116) No. E

Measurement Book

371841

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8
5.	Supplying and fixing Microprocessor based Electronic timer (Without contactor, Din Mounting using necessory bolts, nuts, and washers etc 3-120 sec setting.					
		Each →	4	X 1750.0 = 7000.00		
6.	Supplying of 1.1 KV LT VG cable XLPE or ~~Heat~~ resistant PVC insulated, PVC extruded Inner sheath armoured VG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1. Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (max) as per IS-3975 4 Core 10 Sqmm.					
		mtr →	100	X 100.0 = 10000.00.		

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
7.	Labour charges for laying of 1.1 kV class UG cable in existing trench GI pipe / stone ware pipe / on wall / on pcd as required in existing trench / duct. 6 sqmm to 16 sqmm.						
			Mtr →	100	× 5.0 =	500.00	
8.	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc complete.						
			Mtr →	78	× 70.0 =	5460.00	
9.	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.						
	10 sqmm		Each →	20	× 5.0 =	100.00	

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M. A. R. 57 (Rule 116) No. E 371842
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
10.	16 sqmm	Each→	12	x 8.0	= 96.00		
11.	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts, and washers. 63 Amps.	Each→	2	x 75.0	= 150.00.		
12.	Supply and Installation/Fixing/Provision of pole box with HRC fuse/MCB provision and suitable connector/terminal for 3 ph/1 ph connections with Loop-In & Loop-Out terminals for 10 sqmm/25 sqmm 3.5 c Al/Ar cable and branch out						2.5 Sqmm

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2 core Al/Cu PVC insulated cable, enclosed in a Thermoplastic polystyrene enclosure, which should be shock proof, safe, IP65, dust proof, dust proof water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polymide glands and/or grommets 200 mm x 200 mm x 98 mm.						
	Each → 5 x 1500.0 = 7500.00						
13	Supply of LED pole mounting type post top lantern with pressure die cast aluminium housing body for optimal thermal dissipation, delivering superior light output. Rated life Burning Hrs 50000 Hrs etc complete as per the Specification. LED Post Top Lantern with 35 watts.						
	NO → 6 x 6000.0 = 36000.00						

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M. A. R. 57 (Rule 116) No. E 371843

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8
14.	Supply of LED street light luminaire with pressure die cast aluminium housing body for optimal thermal dissipation lamp compartment comprising of Anti glare clear diffuser with Injection moulded polycarbonate material. delivering superior light output Rated life Burning Hrs 50000 hr @. etc complete as per the specification. as mention as above shall be given by LED manufacturer & Cree / Nichia / Lumileds / Osram make LED source LED street light 25 watts.						
		NO →	15	X 1500.0	=	22500.00	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
15.	Supplying & fixing LED Drivers suitable for 5700K LED fitting outdoor fixtures. Operating voltage range from 180V to 265V, 50Hz AC power supply a) 25W 5700K Suitable for outdoor LED fitting.						
		Each →	12	x 1198.0	=	14376.00	
7.	Fabricating supplying and mounting MS box made out SWG Suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, etc complete with Double door and Top Canopy 16 SWG, 2500 sqcm Each (Dimension 900 x 600 x 214 mm)						
		Sqcm	50000	x 0.35	=	17500.00	

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M. A. R. 57 (Rule 116) No. E 371844

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
18.	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron. and M.S. flat ... with bolts, washers etc. and painted with 2 coats of red oxide and then two coats of approved paint - 400 x 400 x 6 mm.						
		Mtr	→ 10	x 100.0	= 1000.00		
19.	Wiring for lighting/power circuit using one of FRLS-PVC insulated 1100V grade, multistrand copper conductor single core wire in open or concealed system of wiring as per -IS- 694 : 1990 & confirming to GTP of GROUP-B @ 16 Sqmm.						
		Per Mtr	→ 8	x 80.0	= 640.00		

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
20.	Supplying fixing, wiring, earth electrode for grounding conduits. I.C. cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 mts long buried in a pit. The pit should be folled with equal proportion of salt and charcoal 150 mm all round the pipe to complete, depth. etc complet as per specification. the pipe shall have 16 through holes of 12 mm dia.	NO → 1	x	1500.0	=	1500.00	
				Total	=	142747.00	
			Add	12.1.	GST =	17130.00	
			Total	Bill Amt	=	159877.00	

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M. A. R. 57 (Rule 116) No. E 371845

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate :-						
	1) Certified that work is Executed Satisfactorily.						
	2) The bill amount is claimed in the bill has not been claimed in any of the other previous bill.						

ಸಹಾಯಕ ಅಭಿಯಂತರರು (ವಿದ್ಯುತ್)
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು

ASST. EXECUTIVE ENGINE
(ELE) Raja Rajeshwari Nagar Z
Bruhat Bengaluru Mahanagara Pa

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MEASUREMENT BOOK

Adjustments Details
IT 1599-00
CGST 1427-00
SGST 1427-00
CBF 160-00
FSD —
LC 1599-00
FINE —
OTHERS —
TOTAL MD 39969-00
NETT 113696-00

Passed for Rs 159877-00 Only
Nett Cheque Rs 113696-00 Only
Adjustment Rs 46181-00 Only
Rs in Words one lakhs thirteen thousand six hundred ninety six only

Date	Full description, etc, of work	Number	Dimensions: Length	Breadth	Depth	Contents	Reference to Measurement
1	2	3	4	5	6	7	8
							EE(E) RRNZ BBMP

Adjustments Details
IT 1599-00
CGST 1427-00
SGST 1427-00
CBF 160-00
FSD —
LC 1599-00
FINE —
OTHERS —
TOTAL 6218-00
NETT 153665-00

Passed for Rs 159877-00 Only
Nett Cheque Rs 153665-00 Only
Adjustment Rs 6212-00 Only
Rs in Words one lakhs fifty three thousand six hundred sixty five only

Accts Supd.
RRNZ
BBMP

EE(E)
RRNZ
BBMP

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